SHARP

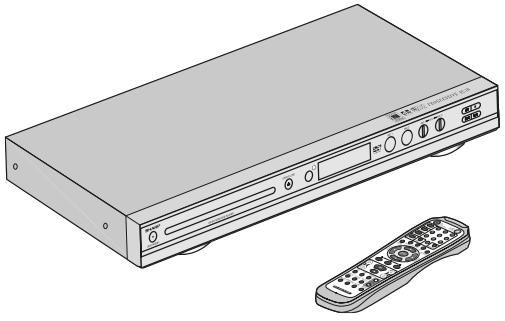
DVD PLAYER

MODEL

DV-SL1500W

OPERATION MANUAL

Thank you for purchasing this SHARP product. To obtain the best performance from this product, please read this manual carefully. It will guide you in operating your SHARP product.



SHARP CORPORATION

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Special notes

CAUTION

- This product is classified as a CLASS 1 LASER product.
- This product contains a low power laser device. To ensure continued safety do not remove any cover or attempt to gain access to the inside of the product. Refer all servicing to qualified personnel.

WARNINGS

- When the ON/STAND BY button is set at STAND-BY position, mains voltage is still present inside the unit. When the ON/STAND BY button is set at STAND-BY position, the unit may be brought into operation by the remote control.
- This unit contains no user serviceable parts. Never remove covers unless qualified to do so. This unit contains dangerous voltages, always remove mains plug from the socket before any service operation and when not in use for a long period.
- To prevent fire or shock hazard, do not expose this appliance to dripping or splashing. No objects filled with liquids, such as vases, shall be placed on the apparatus.

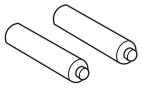
NOTE

Audio-visual material may consist of copyrighted works which must not be recorded without the authority of the owner of the copyright.
Please refer to the relevant laws in your country.

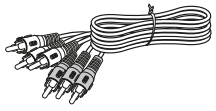
Accessories

Please confirm that the following accessories are included.

Remote control x 1



"AAA"
(UM-4, R03, HP-16 or similar) x 2



Audio / Video cable x 1

Note:
Only the above accessories are included.

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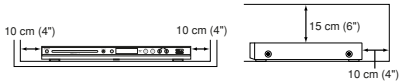
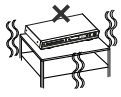
Precautions

■ General

- Please ensure that the equipment is positioned in a well ventilated area and ensure that there is at least 10 cm (4") of free space along the sides, top and back.



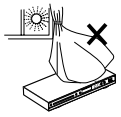
- Use the unit on a firm, level surface free from vibration.



- Keep the unit away from direct sunlight, strong magnetic fields, excessive dust, humidity and electronic/electrical equipment (home computers, facsimiles, etc.) which generate electrical noise.

- Do not place anything on top of the unit.
- Do not expose the unit to moisture, to temperatures higher than 60°C (140°F) or to extremely low temperatures.
- If the unit does not work properly, disconnect the AC power lead from the wall socket. Plug it back and turn on the unit.
- In case of an electrical storm, unplug the unit for safety.
- Hold the AC power plug by the head when removing it from the wall socket, as pulling the lead can damage internal wires.
- **Do not remove the outer cover, as this may result in electric shock. Refer internal service to your local SHARP service facility.**

- The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths, curtains, etc.



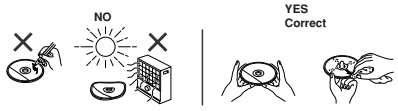
- No naked flame sources, such as lighted candles, should be placed on the apparatus.
- Attention should be drawn to the environmental aspects of battery disposal.
- This unit should only be used within the range of 5°C - 35°C (41°F - 95°F).

Warning:
The voltage used must be the same as that specified on this unit. Using this product with a higher voltage other than that which is specified is dangerous and may result in a fire or other type of accident causing damage. SHARP will not be held responsible for any damage resulting from use of this unit with a voltage other than that which is specified.

■ Care of DVD/CD discs

DVD/CD discs are fairly resistant to damage, however mistracking can occur due to an accumulation of dirt on the disc surface. Follow the guidelines below for maximum enjoyment from your DVD/CD collection and player.

- Do not write on either side of the disc, particularly the non-label side from which signals are read. Do not mark this surface.
- Keep your discs away from direct sunlight, heat, and excessive moisture.
- Always hold the DVD/CDs by the edges. Fingerprints, dirt, or water on the DVD/CDs can cause noise or mistracking. If a DVD/CD is dirty or does not play properly, clean it with a soft, dry cloth, wiping straight out from the centre, along the radius.



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Types of playable discs

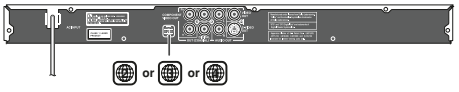
The DVD player can play back discs bearing any of the following marks:

Disc type	Disc contents
DVD Video Disc	Audio and video (movies)
Super Video CD	Audio and video (movies)
Video CD	Audio and video (movies)
Audio CD	Audio
CD-R/CD-RW (*1) Or CD-R/CD-RW recorded in JPEG format (*2) (*3)	Audio and picture

(*1): The CD-R/CD-RW may not be played back properly depending on the recording equipment or the disc.
(*2): JPEG or JPG picture discs also play on this unit. However, pictures may not be clear (depends on resolution and recording method).
(*3): JPEG maximum resolution limit at 2Mb file size.
If photo bigger than this size, a dialog box will appear to display "over file size" and go to next picture.

● For unplayable discs, see page 5.

Types of playable DVD discs vary depending on the region. This unit can play back only DVDs with the same region number as written on the back of the unit.



Icons used in this operation manual
Some functions may not be available depending on discs. The following icons indicate the discs that can be used in the section.

- DVD ... Indicates DVDs.
- SVCD ... Indicates Super video CDs.
- VCD ... Indicates video CDs.
- CD ... Indicates audio CDs.
- JPEG ... Indicates CD-R/RW with JPEG recording.

- Some operations may not be performed depending on discs even if they are described in this manual.
- During operation, "INVALID KEY" may be displayed on the screen. This means that the operations described in this manual are not possible.

Copyright Information:

- Unauthorised copying, broadcast, public display, transmission, public per formance and rental (regardless of whether or not such activities are for profit) of disc contents are prohibited by law.
- This system is equipped with copy protection technology that causes sub stantial degradation of images when the contents of a disc are copied to a videotape.
- This system is protected by U. S. patents and other intellectual property rights, the copyright for which belongs to Macrovision Corporation. The use of Macrovision's copy protection technology in the system is authorised by Macrovision and is intended for home use only, unless otherwise authorised in writing by Macrovision. Reverse engineering or disassembly is prohibited.

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Description of discs

■ Discs that cannot be played

- DVDs without the region number on the back of the unit or “ALL”.
- DVDs with SECAM system
- DVD-ROM
- DVD-RAM
- DVD-Audio
- CDG
- CDV
- Photo CD
- CD-ROM
- SACD
- Discs recorded in special formats, etc.

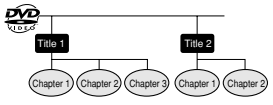
- The discs above cannot be played at all, or no sound is heard although images appear on the screen or vice versa.
- Incorrect operation may damage the speakers and can have a negative effect on your hearing when played at high volume settings.
- You cannot play illegally produced discs.

Notes:

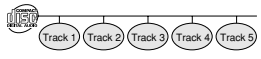
- A disc with has scratches or fingerprints may not play properly. Refer to “Care of DVD/CD discs (page 3)” and clean the disc.
- Do not play the discs of special shapes (heart or octagon shaped) as they can be ejected whilst rotating and cause injury.

■ Title, chapter and track

DVDs are divided into “titles” and “chapters”. If the disc has more than one movie on it, each movie is a separate “title”. “Chapters” are subdivisions of titles.



Audio CDs consist of “tracks”.
A “track” is each tune on an audio CD.



Note:
Title, chapter, or track numbers may not be recorded on some discs.

■ Icons used on DVD discs

Check the icons on the DVD case before playing your discs.

Display	Description
Region number (playable area number)	DVD discs are programmed with region numbers indicating countries in which they can be played. This system can play discs with region number on the back of the unit.
Format recorded on the DVD	To adopt the video format to the connected TVs (“wide-screen TV” or “4:3 size TV”).
4:3	Recorded in 4:3.
16:9 LB	You can enjoy wide images on a wide-screen TV, and letterbox size images on the 4:3 size TV.
16:9 PS	You can enjoy wide images on a wide-screen TV and 4:3 images with the side edges cut on the 4:3 size TV.
Type of subtitles recorded Example: 1: English 2: French	Recorded subtitle languages. Language can be selected with the SUBTITLE button.
Number of camera angles	Number of angles recorded on the DVD. Angles can be selected with the ANGLE button.
Number of audio tracks and audio recording systems Example: 1: Original <English> (DTS 5.1 Surround) 2: English (Dolby Digital 5.1 Surround)	The number of audio tracks and audio recording systems are indicated. ● The audio recorded on the DVD can be switched by using the AUDIO button. ● The number of audio tracks and recording systems vary depending on the DVD. Check them in the DVD’s manual.

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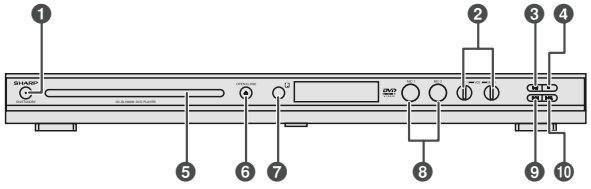
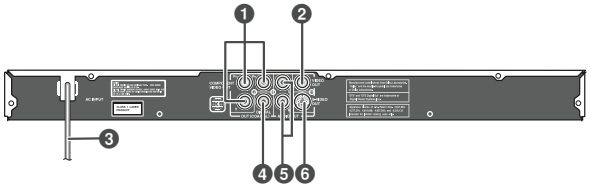
Controls and indicators

■ Main unit (front panel)



1) ON/STANDBY Button
2) Microphone Volume Controls
3) Play or Pause Button
4) Stop Button
5) Disc Tray
6) Disc Tray Open/Close Button
7) Remote Sensor
8) Microphone Sockets
9) Chapter (track) Skip down
10) Chapter (track) Skip up

■ Main unit (rear panel)



1) Component Video Output Sockets
2) Video Output Socket
3) AC Power Lead
4) Digital Output Socket (Coaxial)
5) Audio Output Sockets
6) S-Video Output Socket

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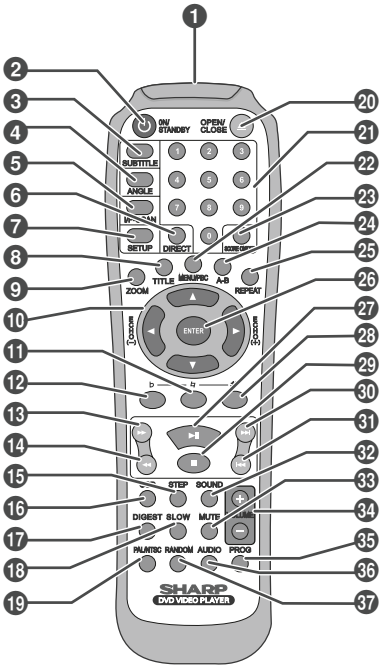
Controls and indicators (continued)



■ Remote control

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2.	ON/STANDBY	20
3.	Subtitle Select Button	37
4.	Angle Select Button	34
5.	Interlace and Progressive Scan	21
6.	Direct Button	42
7.	Setup Button	20, 21, 22, 23, 24
8.	Title Select Button	36
9.	Zoom Button	34, 46
10.	Cursor or Echo Level Up and Down Buttons	20, 34, 44, 48
11.	Key Control Button (normal)	48
12.	Key Control Button (lower)	48
13.	Fast Forward	31
14.	Fast Backward	31
15.	Step Button (Frame by frame advance Playback)	33
16.	On screen Display On/Off Button	41
17.	Video CD Digest Button	39
18.	Slow Button	33
19.	PAL/NTSC Select Button	20
20.	Disc Tray Open/Close Button	29
21.	Direct Number Buttons	32
22.	Menu/Playback Control On/Off Button	36, 42, 44
23.	KARAOKE Scoring ON/OFF	48
24.	A-B Repeat Button	36
25.	Repeat Play Button	35, 45
26.	Enter Button	20, 35, 43, 44
27.	Play or Pause Button	29, 30, 31, 33
28.	Key Control Button (highest)	48
29.	Stop Button	30
30.	Chapter (track) Skip Up	31
31.	Chapter (track) Skip Down	31
32.	Sound Button	27
33.	Mute Button	28
34.	Volume Up and Down Buttons	28
35.	Programme Button	43, 44
36.	Audio Select Button	37
37.	Random Button	40

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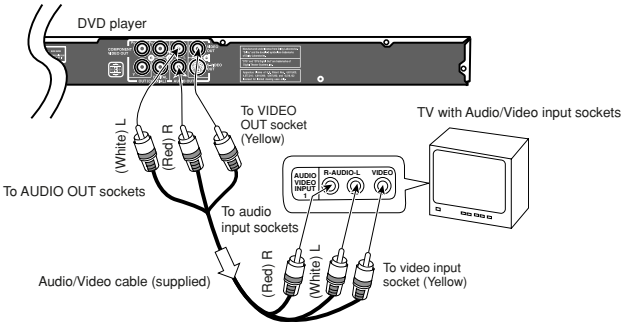
Connecting to a conventional TV

Connect the DVD player to your TV.



Notes:

- Please refer to your TV instruction manual.
- When you connect the DVD player to your TV, be sure to turn off the power and disconnect both units from the wall socket until all the connections have been made.
- If your TV has one audio input socket, connect the AUDIO OUT sockets of the DVD player to a Y-cable adaptor (not supplied), then connect it to the TV Audio input. Please consult your local audio/video dealer.
- Do not connect the DVD player to a VCR directly. The playback picture will be distorted because DVD discs are copy protected.

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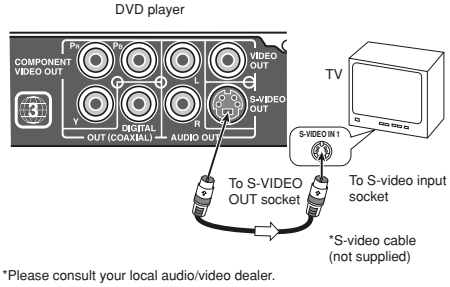
Connecting to a conventional TV (continued)

Using the S-VIDEO OUT sockets

Notes:

Please follow the steps before turn on the power.

1. If your TV has the S-video input socket, connect the DVD player with the S-video cable (not supplied). (The VIDEO OUT socket connection is not necessary.)
   You can enjoy clearer picture playback.
2. You also need to connect the left and right audio cables to the AUDIO OUT sockets of DVD player and the Audio input sockets of the TV.



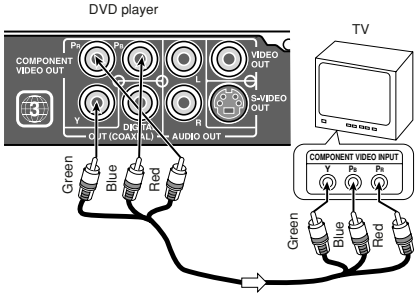
*Please consult your local audio/video dealer.

Using the COMPONENT VIDEO OUT sockets

Notes:

Please follow the steps before turn on the power.

1. If your TV has the component video input sockets, connect the DVD player to these sockets. (The VIDEO OUT or S-VIDEO OUT socket connection is not necessary.)
   You can enjoy high quality picture playback.
2. You also need to connect the left and right audio cables to the AUDIO OUT sockets of DVD player and the Audio input sockets of the TV.



*Component video cable (not supplied)

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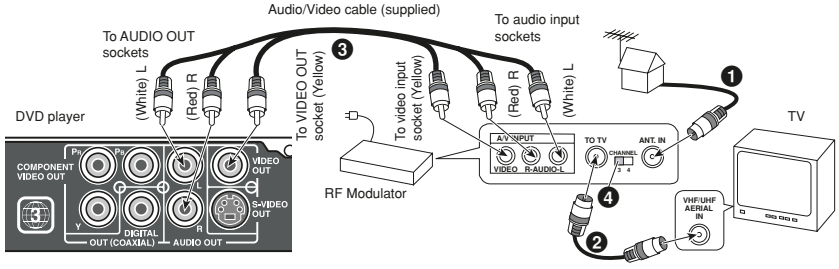
Using RF Modulator

If your TV does not have a Video input socket and has an aerial terminal only, please purchase the *RF Modulator (not supplied).
(*Please consult your audio/video dealer.)

Example: DVD player, TV and RF Modulator connections



1. Connect the aerial cable (not supplied) to the ANT. IN terminal of the RF Modulator.
2. Connect the 75-ohm coaxial cable (not supplied) between the TO TV terminal of the RF Modulator and the VHF/UHF AERIAL IN terminal of the TV.
3. Connect the Audio/Video cable (supplied) between the AUDIO OUT and VIDEO OUT sockets of the DVD player and the AUDIO INPUT and VIDEO INPUT sockets of the RF Modulator.
4. Turn on the TV, and set the channel number (CHANNEL3 or CHANNEL4) on both TV and RF Modulator, whichever is not used for regular broadcast in your area.

Note:
For more details, please refer to the instruction manual of the RF Modulator.

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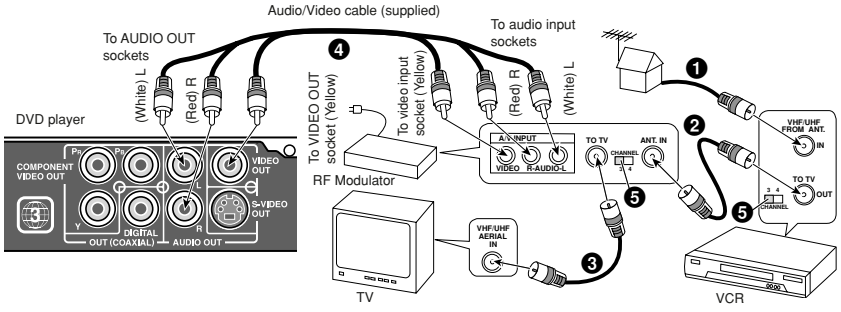
Connecting to a conventional TV (continued)

Example: DVD player, VCR, TV and RF Modulator connections



1. Connect the aerial cable (not supplied) to the VHF/UHF FROM AERIAL IN terminal of the VCR.
2. Connect the 75-ohm coaxial cable (not supplied) between the TO TV OUT terminal of the VCR and the ANT. IN terminal of the RF Modulator.
3. Connect the 75-ohm coaxial cable (not supplied) between the TO TV terminal of the RF Modulator and the VHF/UHF AERIAL IN terminal of the TV.
4. Connect the Audio/Video cable (supplied) between the AUDIO OUT and VIDEO OUT sockets of the DVD player and the AUDIO INPUT and VIDEO INPUT sockets of the RF Modulator.
5. Turn on the TV, and set the channel number (CHANNEL3 or CHANNEL4) on all TV, VCR and RF Modulator, whichever is not used for regular broadcasts in your area.

Note:
For more details, please refer to the instruction manual of the RF Modulator.

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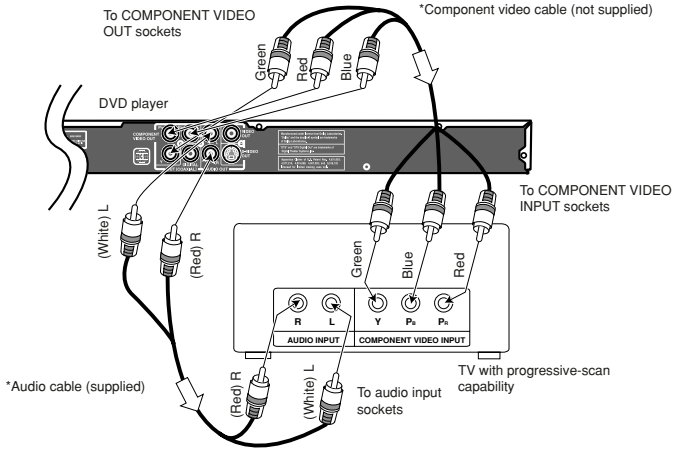
Connecting to a TV with Progressive-scan Capability

Your TV must be capable of handling progressive scanning and have component video input capability.



*Please consult your local audio/video dealer.

1. Connect the DVD player to the component video input sockets of the TV. (The VIDEO OUT or S-VIDEO OUT sockets connection is not encourage.)
2. You also need to connect the left and right audio cables to the AUDIO OUT sockets of DVD player and the Audio input sockets of the TV.
3. Set the DVD player to the PROGRESSIVE position. (See page 21)

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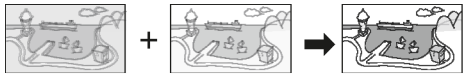
Connecting to a TV with Progressive-scan Capability (continued)

Interlaced scanning



Progressive scanning

Progressive Scanning

Whilst interlaced scanning produces one frame of video in two fields, progressive scanning creates one frame in one field.
Conventional interlaced scanning constitutes one second with 30 frames (60 fields), but progressive scanning constitutes it with 60 frames from scratch.
Progressive scanning can reproduce sharper picture with high resolution for still image or other picture containing long texts or horizontal lines.
This model has compliance with 525p (progressive) system.

Notes:

- Please refer to your TV instruction manual.
- When you connect the DVD player to your TV, be sure to turn off the power and disconnect both units from the wall socket until all the connections have been made.
- Do not connect the DVD player to a VCR directly. The playback picture will be distorted because DVD video discs are copy protected.

Notes:

- **For VIDEO connection, please refer to "BASIC CONNECTIONS".**
- Please refer to the instruction manual of your amplifier.
- When you connect the DVD player to your amplifier, be sure to turn off the power and disconnect both units from the wall socket until all the connections have been made.

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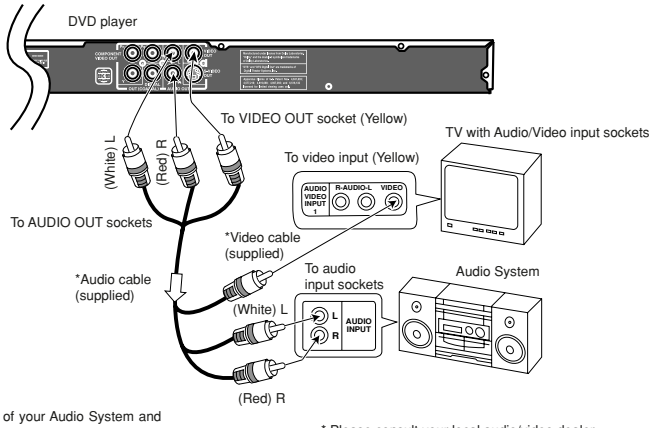
Additional connection

■ Connecting to an Audio System and TV

Connect the DVD player to an Audio System and a TV.



Notes:

- Please refer to the instruction manual of your Audio System and TV.
- When you connect the DVD player to other equipment, be sure to turn off the power and disconnect all of the equipment from the wall socket until all the connections have been made.
- Do not connect the DVD player to a VCR directly. The playback picture will be distorted because DVD discs are copy protected.

* Please consult your local audio/video dealer.

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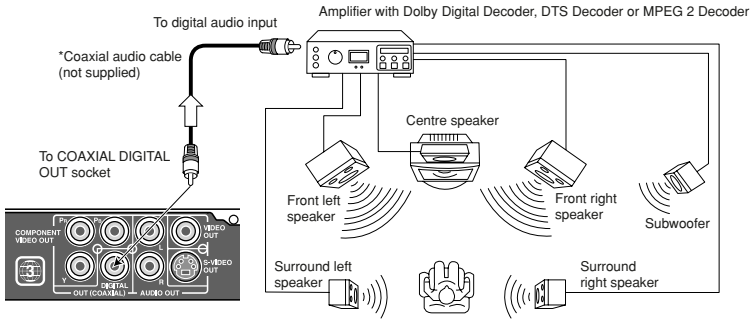
Additional connection (continued)

■ Connecting to an Amplifier with Dolby Digital Decoder or DTS Decoder



To enjoy Dolby Digital or DTS
Select “RAW” in “DIGITAL OUT” on the “AUDIO SETUP”. (See page 23)

* Please consult your local audio/video dealer.

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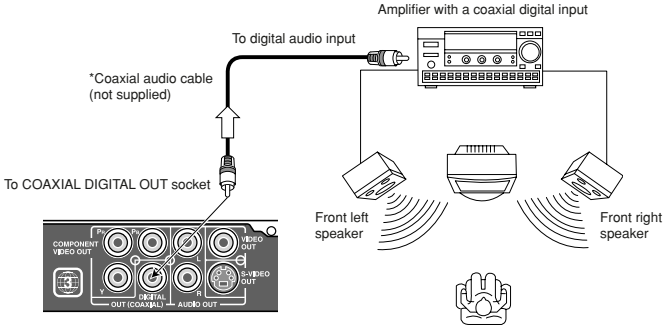
■ Connecting to a Digital Amplifier

You can enjoy 2 Channel Digital Stereo Sound.



To enjoy 2 Channel Digital Stereo sound
Select “PCM” in “DIGITAL OUT” on the “AUDIO SETUP”. (See page 23)

* Please consult your local audio/video dealer.

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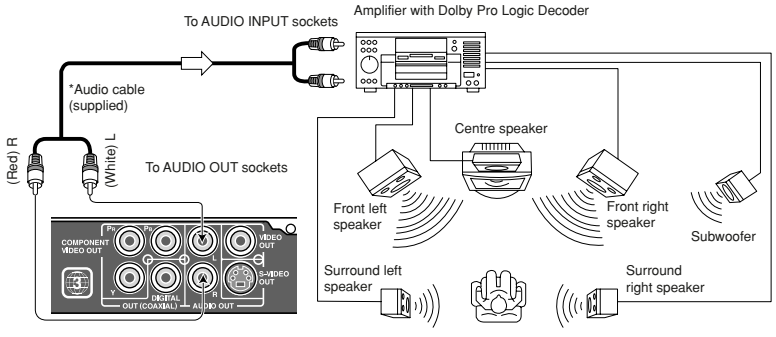
Additional connection (continued)

■ Connecting to an Amplifier with Dolby Pro Logic Decoder



Note:
Please refer to your amplifier instruction manual.

* Please consult your local audio/video dealer.

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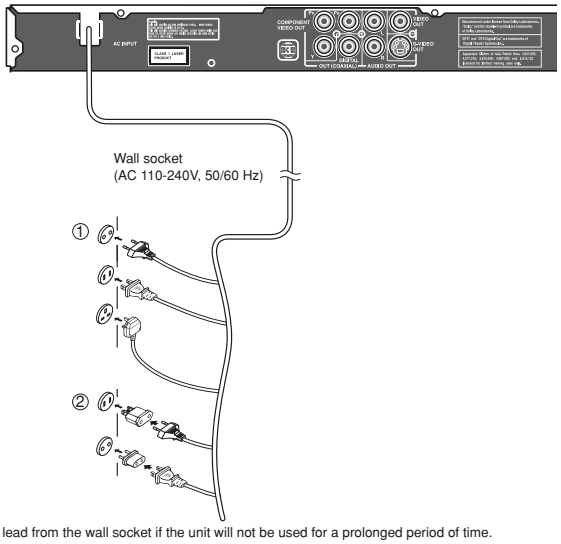
■ Connecting the AC power lead

After checking all the connections have been made correctly, plug the AC power lead of this unit into the wall socket.



Note:
Unplug the AC power lead from the wall socket if the unit will not be used for a prolonged period of time.

AC Plug Adaptor
In areas (or countries) where a wall socket as shown in illustration ② is used, connect the unit using the AC plug adaptor supplied with the unit, as illustrated. The AC plug adaptor is not included in areas where the wall socket and AC power plug can be directly connected (see illustration ①).

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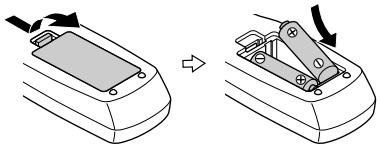
Battery installation

1 **Open the battery cover.**
2 **Insert the supplied batteries according to the direction indicated in the battery compartment.**
When inserting or removing the batteries, push them towards the ⊖ battery terminals.
3 **Close the cover.**



Precautions for battery usage:
- Replace all old batteries with new ones at the same time.
- Do not mix old and new batteries.
- Remove the batteries if the unit is not to be used for long periods of time. This will prevent potential damage due to battery leakage.

Caution:
- Do not use rechargeable batteries (nickel-cadmium battery, etc.).
- Incorrect installation may cause the unit to malfunction.

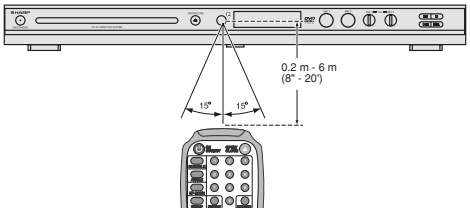
Notes concerning usage:
- Replace the batteries if the operating distance is reduced or if the operation becomes erratic. Purchase 2 “AAA” size batteries (UM-4, R03, HP-16 or similar).
- Periodically clean the transmitter on the remote control and the sensor on the unit with a soft cloth.
- Exposing the sensor on the unit to strong light may interfere with operation. Change the lighting or the direction of the unit.
- Keep the remote control away from moisture, heat, shock, and vibrations.

Turning the power on

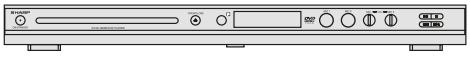
■ Test of the remote control

Check the remote control operation after making all the connections.
Point the remote control directly at the remote sensor on the unit.

The remote control can be used within the range shown below:
Press the power button. Does the power turn on? Now, you can enjoy your system.



■ To turn the power on



Press the ON/STANDBY button:
If the power does not turn on, check the AC power lead is plugged in properly.

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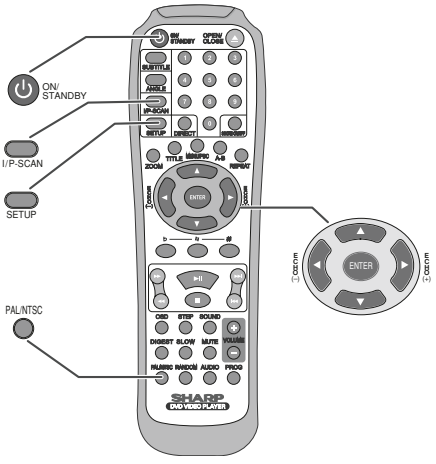
Changing the system setup

Turn on the TV, and switch the input to the "VIDEO 1", "VIDEO 2", etc. accordingly.



1 Press the ON/STANDBY button on DVD player to turn the power on.

- The SHARP startup screen appears.
- If the startup screen is blurred, press the PAL / NTSC button on the remote control repeatedly to change the TV system

2 Press the SETUP button.

3 Press the ▼ or ▲ button to select a Setup menu.

See the list on pages 21 - 24 for setup menu.

4 Press the ▼, ▲, ◄ or ► button to change the setting and press the ENTER button after confirm.

- See the list on pages 21 - 24 for the selectable parameters.
- Press the ENTER button to complete setting.

5 Press SETUP button to complete the setting.

- You can complete the setting by select "EXIT SETUP" or press again SETUP button.
- To change other settings, begin from step 2.

Notes:

- Settings are stored even if the unit is switch off but it does not include for password and parental settings.
- The backup function protects the stored settings for a few hours should there be a power failure or the AC power lead disconnection.
- System setup can be perform during playback mode.

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Changing the system setup (continued)

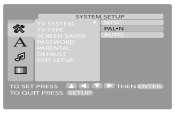
■ Change the system with conventional TV connecting

- If you use a conventional TV, you must select the INTERLACE (I) mode from remote control direct button "I/P-SCAN".
- INTERLACE mode is use for a normal video output.
- For conventional TV connection, please refer to page 11.

■ Change the system to a TV with Progressive-Scan

- If you use TV with Progressive-Scan capability and connect it to the COMPONENT VIDEO OUT sockets of the DVD Video Player (see page 12, 13, 24), you must select the PROGRESSIVE-SCAN (P-SCAN) mode from remote control direct button "I/P-SCAN".

Note:
If you use a conventional TV and you select "P-SCAN" from remote control direct button "I/P-SCAN", the TV screen will become blur (not clear).

Setup menu	Selectable parameters (* indicates default settings.)			Description
SYSTEM SETUP		TV SYSTEM	NTSC* (PHILLIPINES) PAL* AUTO	Select the correct colour system (TV standard). (for details, see page 25).
		TV TYPE	4:3PS* 4:3LB 16:9	The screen mode should be set according to the connected TV type (for details, see page 25).
		SCREEN SAVER	ON*	A screen saver appears.
			OFF	The screen saver is disabled.
		PASSWORD	🔒	Change the password (for details, see page 26).
		PARENTAL	LEVEL 1 ↓ LEVEL 8 NO PARENTAL*	Sets a restriction level for DVD viewing (for details, see page 26). Enter a 4-digit password. It is set to 0000 by default.
		DEFAULT	RESTORE	This resets all setting, except for PARENTAL to the factory defaults.
		EXIT SETUP	–	The setting is completed.

(*1) Selects the dynamic range compression to fit the individual listening situation of the audience. This function can be used in DVD playback. Depending on the disc, sounds may become too loud or inaudible during playback. Dolby Digital's dynamic range control allows you to adjust the sound range.

Caution:
Make sure the unit is on the STOP condition before changing the Interlace or P-Scan (Progressive Scan) mode.

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Setup menu	Selectable parameters (* indicates default settings.)			Description
LANGUAGE SETUP		OSD LANGUAGE	ENGLISH* CHINESE THAI (THAILAND)	You can select the desired (On TV Screen Display) language for the setup menu or playback control screen.
		AUDIO LANG	ENGLISH* CHINESE JAPAN FRENCH SPANISH PORTUGUESE GERMAN	Selects the language audible from the speakers.
		SUBTITLE LANG	ENGLISH* CHINESE JAPAN FRENCH SPANISH PORTUGUESE GERMAN OFF	Selects the subtitle displayed on the TV screen.
		MENU LANG	ENGLISH* CHINESE JAPAN FRENCH SPANISH PORTUGUESE GERMAN	Selects the disc menu language.
		EXIT SETUP	–	The setting is completed.

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Changing the system setup (continued)

Setup menu	Selectable parameters (* indicates default settings.)			Description
AUDIO SETUP		DIGITAL OUT	RAW* PCM	● Highlight the AUDIO OUT option, and press the ◄, ►, ▲ or▼ buttons to choose the audio output mode you prefer. Press ENTER to confirm. ● RAW: Choose this setting if your DVD player is connected to a power amplifier with a coaxial cable; When playing a disc recorded with Dolby Digital, DTS and MPEG audio formats, the corresponding digital signals will be output from the Coaxial Output socket. This Player's digital output sockets are designed for a connection to a Dolby Digital, DTS, or MPEG receiver or decoder. ● PCM: Choose this setting if your DVD player is connected to a 2-channel digital stereo amplifier; When playing a disc recorded with Dolby Digital and MPEG audio formats, audio signals will be modulated into 2-Channel PCM signal, and it will be output from the Coaxial Output socket.
		DYNAMIC RANGE	FULL 6/8 4/8 2/8 OFF*	DYNAMIC RANGE: If adjusting to FULL, the audio signal peak value will be the minimum; whilst adjusting to OFF, maximum.

* Use the ▲▼ buttons to adjust the setting level and press the "ENTER" to complete it.

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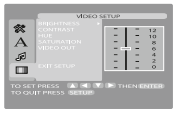
Setup menu	Selectable parameters (* indicates default settings.)			Description
VIDEO SETUP		BRIGHTNESS	12 10 8 6* 4 2 0	To adjust TV screen brightness level.
		CONTRAST	12 10 8 6* 4 2 0	To adjust TV screen contrast level.
		HUE	+6 +4 +2 0* -2 -4 -6	To adjust TV screen hue level.
		SATURATION	12 10 8 6 4 2 0*	To adjust TV screen saturation level.
		VIDEO OUT	YUV* P-SCAN S-VIDEO	Select “INTERLACE-YUV” mode if connect DVD Video Player (Video Output Socket or S-Video Output Socket) to TV (Video Input Socket or S-Video Input Socket) (For details, see page 8,9,10,11,14). Select “P-SCAN YP_BP_R” mode if connect DVD Video Player (component video output socket) to TV (component video input socket with progressive-scan capability) (for detail, see page 12,13).
		EXIT SETUP	–	The setting is completed.

* Use the ▲▼ buttons to adjust the setting level and press the “ENTER” to complete it.

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Changing the system setup (continued)

■ TV type setting

Indicator	Setting
4:3PS	When playing a wide image (16:9) disc, the left and right sides of the image are cut (pan scan) to display a natural-looking 4:3 size image. A wide image disc without pan scan PS is played back in 4:3 letterbox. A 4:3 disc is played in 4:3.
4:3LB	When playing a wide image (16:9) disc, black bands are inserted at the top and bottom and you can enjoy full wide images (16:9) on a 4:3 size TV. A 4:3 disc is played in 4:3.
16:9	A wide image (16:9) is displayed when playing a wide image (16:9) disc. • When playing a 4:3 image disc, the image size depends on the setting of the connected TV. • If you play back a wide image (16:9) disc with this unit connected to a 4:3 TV, the vertically shrunk image is displayed.

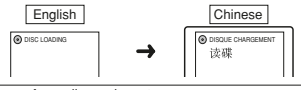
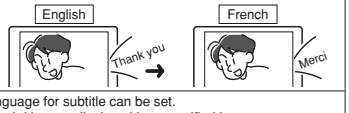
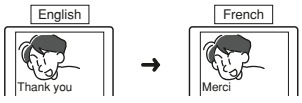
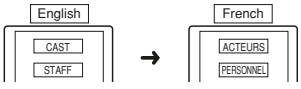
Note:
When playing the disc with a fixed video format, it will not change even if the TV screen size is changed.

■ TV system setting

Indicator	Setting
AUTO	Select this mode for the multi-system TV.
NTSC	Select this mode for the NTSC TV.
PAL	Select this mode for the PAL TV.

Note:
● Please refer to page 21 for TV system setting.

■ Language setting

Indicator	Setting
OSD LANGUAGE	A language for screen display can be set for the setup menu, messages, etc. 
AUDIO LANG	A language for audio can be set. You can specify a language for conversation and narration. 
SUBTITLE LANG	A language for subtitle can be set. The subtitles are displayed in a specified language. 
MENU LANG	A language for disc menus can be set. Menu screens are displayed in a specified language. 

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■ Parental setting

1 **Select "SYSTEM SETUP" on the Setup menu screen (see steps 1 - 4 on page 20).**

2 **Before setting "PARENTAL", ensure password is unlock "🔓". The "PARENTAL" level can't be setting if the password is lock "🔒".**

3 **After selecting "PARENTAL" in steps 1 - 4 on page 20, select the parental level and press the "ENTER" button to confirm.**

4 **After enter parental level, select "PASSWORD" to lock the password key.**

5 **Enter a 4-digit password using the DIRECT NUMBER buttons and press the ENTER button.**

* If this is the first time, enter "0000" as factory default password.

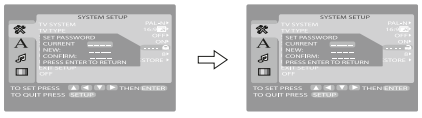
Indicator	Setting
Level 1	Adult viewing
Level 2	NO ONE 17 AND UNDER ADMITTED
Level 3	RESTRICTED Under 17 requires accompanying parent or adult guardian.
Level 4	Reserve.
Level 5	PARENTS STRONGLY CAUTIONED Some material may be inappropriate for children under 13.
Level 6	PARENTAL GUIDANCE SUGGESTED Some material may not be suitable for children.
Level 7	Reserve
Level 8	GENERAL AUDIENCES All ages admitted.

* Level 1 : for most restrictive viewing ==> Level 8 : for general audiences viewing.
The smaller the number, the greater the level of restriction.

Note:
Whilst playing a disc with parental lock, the display may appear requesting a password in order to watch some restricted scenes. In such case, enter the password to temporarily change the parental level.

■ Password setting

From the setup menu, select "SYSTEM SETUP", "PASSWORD" and choose "_ _ _ _ 🔓 ".



Picture (a) *Picture (b)*

1 **For the first time setting the password, enter the factory default password by pressing "0000".**

2 **Enter own new password (maximum 4 digit) using the DIRECT NUMBER buttons.**

3 **Enter again same own new password buttons.**
Press ENTER button to return.
The "🔓" will be unlock as show in picture (b).

4 **Exit setup. The "🔒" will be lock after exit setup menu.**

Notes:
- When you forget your password, cancel the current password by pressing "0000" using the DIRECT NUMBER buttons (0 - 9).
- Please go to page 21 for Parental and Password setting reference.

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Changing the system setup (continued)

■ Sound menu setup

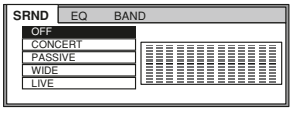
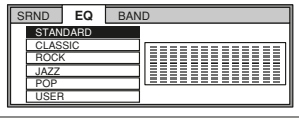
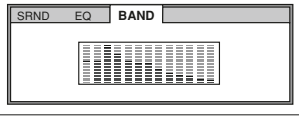
SVCD VCD CD

1. Whilst a disc is playing, press the SOUND button from the direct button key of remote control.
2. The Sound setup screen appear on TV screen.
3. Use ◄ or ► button to select the desired sound effect such as SURROUND, EQUALISER & BAND.
4. Use ▼, ▲, ◄ or ► button to select the desired parameters (only for user equaliser level which can be changed) as refer to Sound setup menu on page 27.

■ Change equaliser level for user

1. Go to USER (EQ) and press ENTER button to change the level by use ▲ or ▼ button key (12dB~ –12dB) and ◄ or ► button to select frequency range.
2. Press ENTER button to confirm the setting.
3. Press SOUND button (time) to exit.

Sound setup menu :

Setup Menu	Selectable parameters (*indicates default settings)		Description
SURROUND (SRND)		OFF* CONCERT PASSIVE WIDE LIVE	● You can select certain types of surround sound effect. ● The level of this types of surround sound cannot be change.
EQUALISER (EQ)		STANDARD* CLASSIC ROCK JAZZ POP USER	● You can select certain types of equaliser sound effect. ● The level for equaliser types : STANDARD, CLASSIC, ROCK, JAZZ & POP cannot be change. Which is already set to a standard level as factory default setting. ● Only equaliser level for USER can be setting.
BAND		BAND*	● You can see the sound effect of band equaliser from TV screen. ● The BAND equaliser level can't be set.

Note:
On a DVD, the Sound function does not operate.

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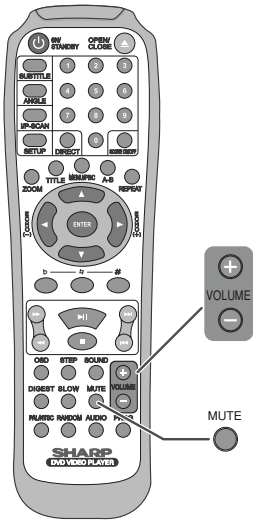

■ Adjusting the volume (only ANALOGUE)

Press the VOLUME + button to increase the volume and the VOLUME – button for decreasing.

<TV screen>

0 ↔ 1 ↔ 2 ····· ↔ 15

■ Muting

The volume is muted temporarily when pressing the MUTE button on the remote control. Press again to restore the volume.

* TV screen display “MUTE” when press “MUTE” button.

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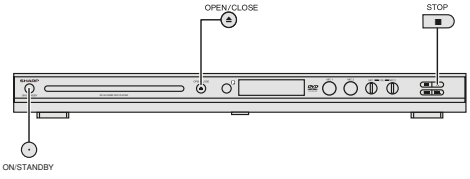
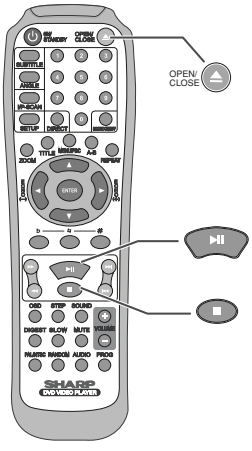
DVD playback

Turn on the TV, and switch the input to the "VIDEO 1", "VIDEO 2", etc. accordingly.





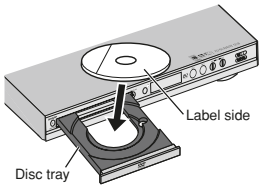
■ Playback DVD SVCD CD JPEG

1 Press the ON/STANDBY button to turn the power on.

2 "SHARP" startup screen appears on the TV screen.

3 Press the ▲ OPEN/CLOSE button to open the disc tray.

4 Place the disc on the disc tray, label side up.



Be sure to place 8 cm (3") discs in the middle of the disc position.

5 Press the ▲ OPEN/CLOSE button to close the disc tray.

Discs supporting auto start will start to play once you close the disc tray even if you do not press the ► PLAY (►II) button.

6 If playback does not start in step 5, press the ► PLAY (►II) button.

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To interrupt playback
Press the ► PLAY (►II) button.
To resume playback from the same point, press the ► PLAY (►II) button.

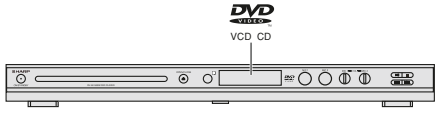
To stop playback
DVD/Audio CD/JPEG/VCD:
Press the ■ STOP (■) button twice.

When the unit is left unoperated for more than 3 minutes after pressing the ■ STOP (■) button, a screen saver appears (see page 21 when the screen saver setting is "ON").
Press any button on the main unit or remote control. The startup screen returns.

Caution:
- Close the disc tray when not in use. Otherwise, dust may accumulate inside and cause malfunction.
- The unit gets slightly warm when used for a long time. It does not mean the unit is damaged.
- When attempting to play disc with scratches or of a different region number, or unplayable or restricted (*1) discs, an error message will appear on the TV display and the disc will not play.

(*1) Viewing is prohibited on some DVDs according to the audience age.

Notes:
- During disc initialisation, the volume cannot be adjusted.
- Stop positions may be recorded on some discs. When you play such a disc, playback stops there.
- During an operation, "INVALID KEY" may appear indicating that the operation is disabled by the disc.
- The main unit detects loaded discs automatically and then the indicators light up.



■ To resume playback after stopping (resume play) DVD CD SVCD VCD

You can resume playback from the point playback is stopped.

1 Whilst a disc is playing, press the ■ STOP (■) button.
The system stores the point you stopped.

2 To restart play, press the PLAY (►II) button.
Play resumes from the point you stopped.

To cancel the resume playback:
Press the ■ STOP (■) button twice.

Notes:
- The resume playback feature is disabled on some discs.
- Depending on the disc, playback may resume from slightly before the stopped position.

■ DVD mode operation indicators DVD

The following are examples of operation indicators that appear during DVD playback.

Operation	TV screen	Unit display
When the power is on without a disc	NO DISC	NO DISC
Disc data is being read	LOAD	LOAD
1st time Stop ■	PRE-STOP ►II	1:42:03
2nd time Stop	STOP ■	1:42:03
Play	PLAY ►	0:01:28
Pause	PAUSE II	0:01:28

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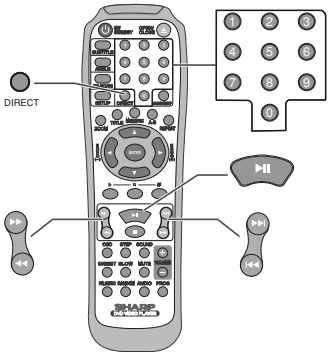
Basic operation



■ To locate the beginning of a chapter (track) (skip) DVD SVCD VCD CD JPEG

You can move to other tracks with simple operations.
When playing SVCD or VCD, cancel the P.B.C. (playback control) (see page 42).

Whilst a disc is playing, press the I◄◄ or ►►I button.
- Use the ►►I button to skip to the next chapter (track).
- Use the I◄◄ button to skip to the previous chapter (track).
- On SVCD, VCD and Audio CD, the I◄◄ button skips to the beginning of the current track. Press the I◄◄ button again to skip to the beginning of the previous track.

Notes:
- Some discs do not display the chapter (track) and the skip feature is disabled.
- On a DVD, skip does not operate between titles.
- Alternatively, press the I◄◄ or ►►I button on the main unit.

■ Fast forward/Fast backward (search)

DVD SVCD VCD CD

You can search the desired point as you play the disc.

1 Whilst a disc is playing, press the ◄◄ or ►► button.

Example: When the ►► button is pressed
On DVD/SVCD/VCD/Audio CD, the speed changes as follows:

Forward X 2

PLAY (Normal play) → Forward X 2 → Forward X 4 → Forward X 6 → Forward X 8

PLAY (Normal play) Backward X 2 → Backward X 4 → Backward X 6 → Backward X 8

The disc is forwarded by the ►► button and backward by the ◄◄ button.

2 Press the ►II button to return to the normal playback.

Notes:
- On some discs, the search function is disabled.
- On a DVD, search does not operate between titles.
- On SVCD, VCD and audio CD, the search can be operate between tracks.
- Whilst searching on a DVD, the sound is not heard and the subtitles do not appear.
- Whilst searching on an SVCD or a VCD, the sound is not heard.
- Audio CD disc sounds will break up during search. This is not a malfunction.
- When search is performed during the DVD playback, pictures may not be forwarded or reversed in the search speed specified in this manual, depending on the disc or the scene being played.
- The search does not operate on JPEG discs.

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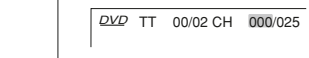
■ To start playback from the desired point (direct play) DVD SVCD VCD CD

To select and play the desired title and chapter:

1 Whilst in the stop or playback mode, press the DIRECT button.

TV screen



2 Select the title or chapter by pressing the ◄ or ► button and enter the title or chapter number using the DIRECT NUMBER buttons.

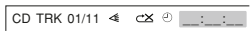
Example:
To select chapter 1: Press "1".
To select chapter 12: Press "1" and "2".
To select chapter 22: Press "2" and "2".

3 Within 10 seconds, press the ENTER button after confirm.

Notes:
- Direct play feature is disabled on some discs.
- Some discs may not display the chapter number.
- With DVDs, you can specify the desired point only in the current title and not in another title.

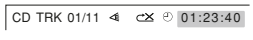
To play by specifying time (time search):
You can play back from the desired point by specifying the time.

1 Whilst in the stop or playback mode, press the DIRECT button.



If the "_ _:_ _:_ _" is not highlighted, press the ◄ or ► button repeatedly.

2 Specify the time with the DIRECT NUMBER buttons, and then press the ENTER button.



- To specify 1 hour 23 minutes and 40 seconds, enter "01:23:40".
- If you enter the wrong number, press cursor ◄ or ► to the desired change time.

Notes:
- Some discs cannot play from the specified point.
- Time search feature is disabled on some discs.

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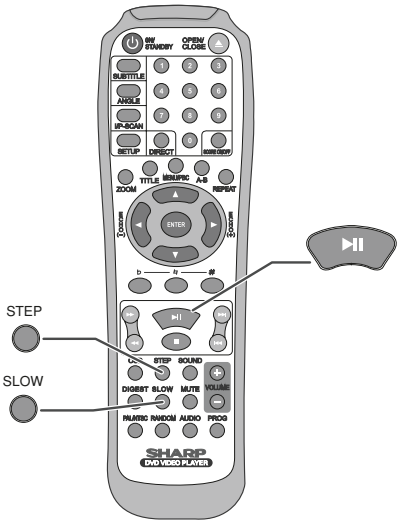
Useful operation



■ Still picture

You can freeze the image during playback.

1 Whilst a disc is playing, press the ►II (Play/Pause) button.

2 The image or picture will be freeze on TV screen. "II"appears briefly on the TV screen.

Note: The sound is muted during still picture.

■ Step function (Frame by frame advance Playback)

You can advance frame by frame.

1 Whilst a disc is playing, press the STEP button.
Each press of the STEP button advances the frame.

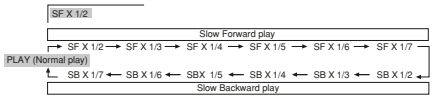
2 Press the ►II button to return to the normal playback.

Notes:
- Frame playback is operated forward only.
- Still picture and frame advance features are disabled on some discs.
- The sound is muted during step function.

■ Slow-motion play DVD SVCD VCD

You can slow down the playback speed.

1 Whilst a disc is playing, press the SLOW button repeatedly to select the desired speed.
On DVD, the speed changes as follows:


SF X 1/2
Slow Forward play
SF X 1/2 → SF X 1/3 → SF X 1/4 → SF X 1/5 → SF X 1/6 → SF X 1/7
PLAY (Normal play)
SB X 1/7 ← SB X 1/6 ← SBX 1/5 ← SB X 1/4 ← SB X 1/3 ← SB X 1/2
Slow Backward play

2 Press the ►II button to return to the normal playback.

Note: On some discs, the slow-motion play functions are disabled.

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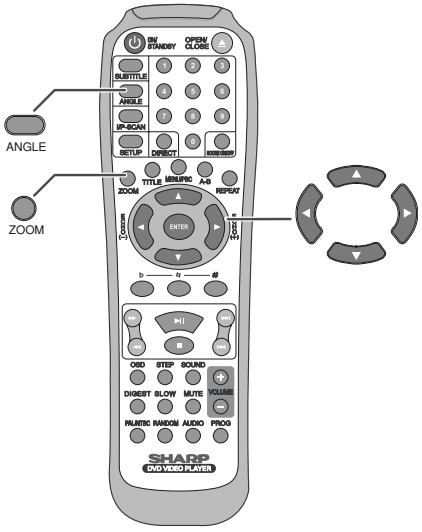


■ To change the angle DVD

You can change the angle of view when playing a DVD disc that contains scenes recorded from multiple angles.

When " " is displayed in the upper left corner of the TV screen, press the ANGLE button repeatedly to select the desired angle number.

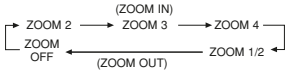
Notes:
- The angle number is not displayed if angles are not recorded on the disc.
- Refer to the manual of the disc as the operation may vary depending on the disc.

■ To zoom images (zoom) DVD SVCD VCD JPEG

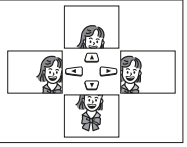
You can magnify images zoom in and zoom out during playback.

1 Whilst a disc is playing, press the ZOOM button.

Each press of the ZOOM button cycles through the zoom setting as follows:



2 To shift the view and display the desired part of a zoomed image, press the ▲, ▼, ◄ or ► button repeatedly.



To return to normal view:
Press the ZOOM button repeatedly to select "ZOOM OFF".

Notes:
- Images may become distorted when zoomed.
- Subtitles cannot be zoomed.
- For JPEG ZOOM function, please refer page 46 for details.

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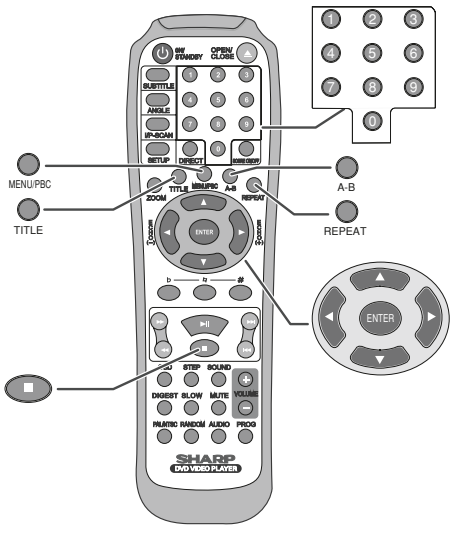
Useful operation (continued)



■ To play repeatedly (repeat play) DVD SVCD VCD CD

You can play a chapter (track) or a title repeatedly by specifying it during playback. When playing SVCD or VCD, cancel the P.B.C. (playback control) (see page 42).

1 Whilst a disc is playing, press the REPEAT button to Repeat 1.

TV screen	Unit display
REP: [REP 1]	REP 1

Each time the button is pressed, the repeat play mode changes in the following order.

The repeat play mode changes as follows on DVD:

REP: [CHAPTER]	"REP 1"	Repeat the currently playing chapter.
REP: [TITLE]	"REP ALL"	Repeat the currently playing title.
REP: [REP ALL]	"REP ALL"	Repeat the currently playing disc.
REP: [OFF]	"no display"	The normal playback.

The repeat play mode changes as follows on SVCD/VCD/audio CD:

REP: [REP 1]	"REP 1"	Repeat the currently playing track.
REP: [REP ALL]	"REP ALL"	Repeat the currently playing disc.
REP: [OFF]	"no display"	The normal playback.

JPEG is displayed when JPEG menu screen is off (see page 44).

2 To return to the normal playback, press the REPEAT button repeatedly to select "REPEAT OFF".

Caution:
After performing repeat play, be sure to press the ■ button. Otherwise, the disc will play continuously.

Notes:
- On some discs, the repeat play function is disabled.
- For JPEG repeat playback, please refer page 45 for details.

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■ To play the contents between the specified points repeatedly (A-B repeat)

DVD SVCD VCD CD

You can play the desired portion repeatedly by specifying it during playback.

1 Whilst a disc is playing, press the A-B button.

TV screen	Unit display
REPEAT A-	A

This registers the start point (A).

2 Press the A-B button again to enter the end point (B).

TV screen	Unit display
REPEAT A-B	A-B

This starts A-B repeat from the start point (A) to the end point (B).

3 Press the A-B button to return to the normal playback.

Notes:
- A-B repeat play is disabled on some discs.
- A-B repeat play for DVD is possible only within a title.
- A-B repeat play for SVCD/VCD is possible only within a track.
- Some scenes on DVD may not allow A-B repeat play.

■ To select a title from the top menu of the disc DVD

On a DVD with multiple titles, you can select a title from the top menu.

1 Whilst in the stop or playback mode, press the TITLE button to display the title menu.

Example

2 Use the ▲, ▼, ◄ or ► button to select a title, and then press the ENTER button.
- The selected title plays.
- Or use the DIRECT NUMBER buttons for some discs.

Note:
The procedure shown here provides only general steps. The actual procedure for using the title menu depends on the disc. See the disc jacket for details.

■ To select a subtitle or audio language from the disc menu DVD

You can select the desired subtitle or audio language and sound system [Dolby Digital (5.1ch) or DTS sound] on your DVD if it has a disc menu.

1 Whilst in the stop or playback mode, press the MENU/PBC button to display the disc menu.

Example

2 Press the ▲, ▼, ◄ or ► button to change the setting and press the ENTER button.
Or use the direct number buttons for some discs.

Note:
The procedure shown here provides only general steps. The actual procedure for using the disc menu depends on the disc. See the disc jacket for details.

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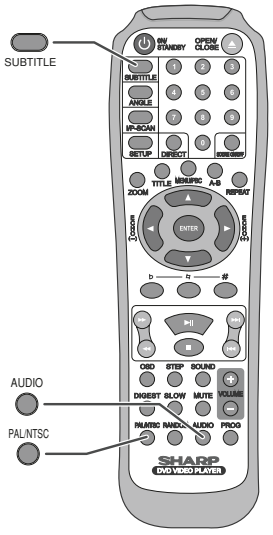
Various settings

The subtitle language, audio language and TV type you select during playback are reset each time you set this unit to the stand-by mode or switch the input. To keep your own settings, set them in the setup menu (see page 20).



■ To change the subtitle language DVD

You can change the subtitle language or hide subtitles during playback.

Whilst a disc is playing, press the SUBTITLE button repeatedly to select the desired subtitle language.

: [1 ENGLISH]

Notes:

- On some discs, the subtitle language cannot be changed.
- If no subtitles are recorded on the disc, "OFF" is displayed.
- It may take time to switch the subtitle language to the selected one.
- Subtitles cannot be hidden on some DVDs.

■ To change the audio language (audio output) DVD

During playback, you can change the audio language (audio output).

Whilst a disc is playing, press the AUDIO button repeatedly to select the desired audio number.

: [1 ENGLISH 5.1 CH]

You can select recorded languages.

ENGLISH → FRENCH → ··· → SPANISH

Notes:

- On some discs, the audio language cannot be changed.
- For the audio language and audio system, refer to the manual of the disc.

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Video CD and Super Video CD Operation

The following playback functions are the same as DVD or CD operations.

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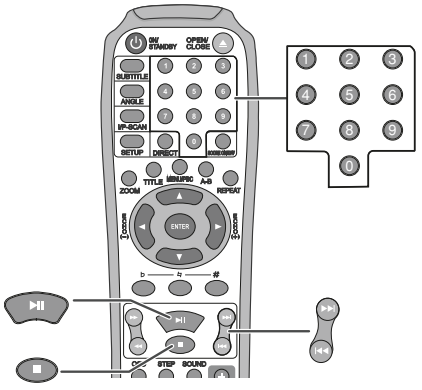
To change the audio language (audio output)	37
To change the TV type	41
To change the audio channel	41
To change the display on TV screen	41
To play in the desired order (programmed play)	43



■ Playback of a video CD (super video CD) with P.B.C. ON SVCD VCD

1 Press the MENU/ PBC button with PBC ON

The menu will appear on the TV and playback will be paused.

Example

2 Select the desired menu number using the DIRECT NUMBER buttons.

- Playback starts.
- After playback stops, the menu will reappear. Select the menu number to play.

To interrupt playback:
Press the ▶II button.
To resume playback from the same point, press the ▶II button.

To stop playback:
Press the ■ button twice.

The P.B.C. function will not work in the following conditions.
Repeat/programmed/direct play or the skip feature is in operation.

Notes:
- During disc initialisation, the volume cannot be adjusted.
- Subtitles and sounds on the super video CD can be switched (see page 37).
- The menu screen cannot be scrolled on some discs.

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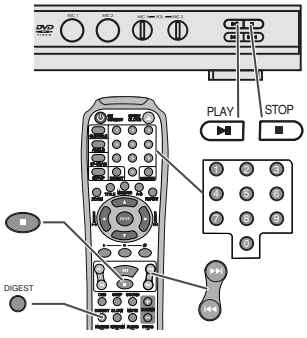
Video CD and Super Video CD Operation (continued)

■ Digest selection of discs and tracks

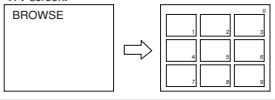


■ Disc digest selection SVCD VCD

You can play back a desired track by selecting one from the 9 displayed tracks on the screen.

1 Whilst in the stop mode, press the DIGEST button.
Up to 9 tracks will be displayed on the screen.

<TV screen>



2 Press the DIRECT NUMBER buttons on the remote control to select the desired track.
- Playback will be started from the selected track after pressing the PLAY ►II button.

When there are more than 9 tracks on the video CD:
Each press of the ►►I (SKIP ►►I) button will display the next 9 tracks.
Press the I◄◄ (I◄◄ SKIP) button to return to the previous display.

To cancel the disc digest:
Press the ■ (STOP ■) button.

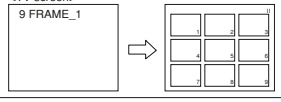
Notes:
- The disc digest function works only during playback.
- This function is not available with an audio CD.

■ Track digest selection

Each track is divided into 9 sections.
You can look at the sections and select the scene you want to start watching from. This function is convenient when you want to start from the middle of an undivided track, for example, a movie.

1 During playback, press the DIGEST button.
The track being played back will be divided into 9 sections and playback will be paused.

<TV screen>



2 Press the DIRECT NUMBER buttons on the remote control to select the scene you want to watch.
- Playback will be started from the selected scene after pressing the PLAY ►II button.

To cancel the track digest operation:
Press the ■ (STOP ■) button.

Notes:
- The track digest function works only during playback.
- This operation is not accepted by a short time track (less than one minute), still pictures (menu display, photo, etc.).
- One track is divided into nine frames of equal playing time.

Caution:
Digest function of discs and tracks will not work during P.B.C. and programme play. Cancel the P.B.C. mode before using this function on a video CD with P.B.C.

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■ Random Play SVCD VCD CD

The tracks on the disc(s) can be played in random order automatically.

1 Whilst in the playback mode, press the RANDOM button on the remote control to begin random play.

TV screen	Unit display
RANDOM : [ON]	No display

2 To cancel random play, press the RANDOM button for the second time.

TV screen	Unit display
RANDOM : [OFF]	No display

Notes:

- If you press the NEXT ►►I button during random play, you can move to the track selected next by the random operation. If you press the I◄◄ PREV. button will allow you to move to the previous track. The beginning of the track being played will be located.
- In random play, the CD player will select and play tracks automatically. (You cannot select the order of the tracks.)
- Repeat or random function will not work during P.B.C. play. Cancel the P.B.C. mode before using this function on a video CD with P.B.C.

Caution:

After performing repeat or random play, be sure to press the ■ (STOP ■) button.
Otherwise, the disc(s) will play continuously.

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Video CD and Super Video CD Operation (continued)

■ To change the TV type DVD SVCD VCD CD

You can select a TV type.

Whilst in the stop or playback mode, press the PAL /NTSC button repeatedly to select a TV type.

AUTO → NTSC → PAL

■ To change the audio channel SVCD VCD

You can select an audio channel.

Whilst a disc is playing, press the AUDIO button repeatedly to select the desired audio channel.

The audio channel changes as follows on SVCD/VCD:

MONO L → MONO R → AUTO L → AUTO R → STEREO

Notes:

- The audio channel may not be changed on some discs.
- Audio button can not function on audio CD.

■ To change the display on TV screen

DVD SVCD VCD CD

You can display or hide the operation indicators on the TV screen.

Whilst a disc is playing, press the OSD button. (The display is changed at each press.)

DVD:

Current title number Current chapter number

DVD TT 1/28 CH 1/14
C 00:00:52

Total number of chapters
Total number of titles

Elapsed playback time for the total chapter

1/4ENG 5.1CH 1/5 ENG OFF

Current Subtitle and Audio Language

DVD TT 1/28 CH 1/14
C −00:04:59

Remaining playback time for the current chapter

DVD TT 1/28 CH 1/14
T 00:01:14

Elapsed playback time for the current title

DVD TT 1/28 CH 1/14
T −01:27:40

Remaining playback time for the current title

OFF

SVCD/VCD/Audio CD:

VCD TRK 7/14 PBC
C 00:00:44

Elapsed playback time for the current track

VCD TRK 7/14 PBC
C −00:05:42

Remaining playback time for the current track

VCD TRK 7/14 PBC
T 00:23:42

Total elapsed playback time for the disc

VCD TRK 7/14 PBC
T −00:36:24

Total remaining playback time for the disc

OFF

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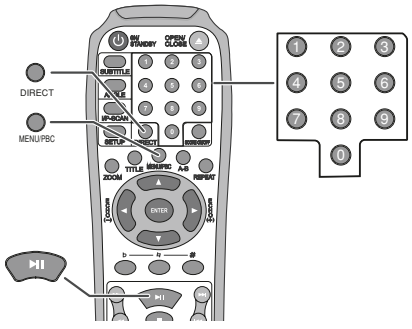

■ To play without activating the playback control function SVCD VCD

You can play a video CD (super video CD) with P.B.C. without activating the playback control function.
In this case, the menu screen will not appear, and the disc will play in the same way as a video CD (super video CD) without P.B.C.

Whilst in the stop or playback mode, press the MENU/PBC button to cancel the P.B.C. mode.

Note:
Some video CDs (super video CDs) with P.B.C. cannot be played back when the P.B.C. mode is off.

■ To start playback from the desired point (direct play)

To select and play the desired track: SVCD VCD CD

Cancel the P.B.C. (playback control).

Whilst in the stop or playback mode, press the DIRECT NUMBER buttons to select the track number.

TV screen **Unit display**

VCD TRK 03/14 PBC 00:03:56 003:03:56

Press cursor ◄ or ► to select the digit numbers are decided to change.
Example:
To select track 14: Press "1" at track first digit and "4" at track second digit. Press ENTER after confirm.

Notes:
- Direct play feature is disabled on some discs.
- Some discs cannot play from the specified point.

To play by specifying time (time search): SVCD VCD CD

Cancel the P.B.C. (playback control).

1 During playback, press the DIRECT button.

VCD TRK 01/01 PBC 00:00:00 → 00:00:30
Hour Minutes Second
Time search

2 Specify the time by use ◄ or ► cursor to select desire change time digits.
- Enter minutes and seconds.
- To specify 1 hour 23 minutes and 40 seconds, use cursor ◄ or ► to select hour "01", minutes "23" and second "40".
- If you enter the wrong number, press cursor ◄ or ► to direct change the digit number.
- Press ENTER to confirm.

Notes:
- Time search feature is disabled on some discs.
- Time search feature is not available on JPEG discs.

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CD operation

The following playback functions are the same as DVD or VCD operations.

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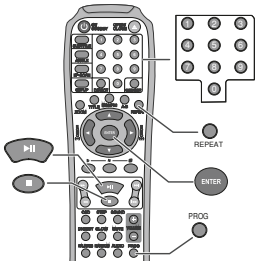


■ To play in the desired order (programmed play)

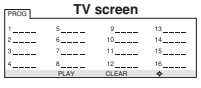
DVD SVCD VCD CD

You can playback the desired tracks in a specific order.
Maximum of 16 tracks can be programmed.

1 Whilst in the stop or playback mode, press the PROG button.

The PROGRAM screen show as follows on SVCD VCD CD:

TV screen

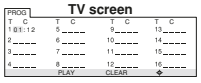


Unit display

2 Enter a track and chapter number with the DIRECT NUMBER buttons.

The PROGRAM screen show as follows on DVD:

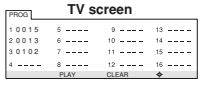
TV screen



Unit display

The PROGRAM screen show as follows on SVCD VCD CD:

TV screen



Unit display

- Repeat the procedure above to enter other track numbers by pressing ▲, ▼, ◄ or ► cursor.
- If you enter the wrong number, you can change the title/track number by pressing DIRECT NUMBER buttons.
- If the track number is 2 digits or more, example track 12, just press “1” and “2” by DIRECT NUMBER buttons.

3 Select “PLAY” at the PROGRAM menu and press ENTER button on remote control to start play.

To change the programmed contents:
Repeat the above procedures from step 1.

Programmed contents will be cleared when you perform the following operations:

- Press the STOP (■) or PROG button in the stop or play mode twice.
- Switch the input or remove the discs.
- Select “CLEAR” at PROGRAM menu and press ENTER.

Notes:

- Programming is not possible whilst paused.
- Sequential programming does not work if the disc disables programming or does not have track information.
- During programmed play, repeat play can be performed by pressing the REPEAT button.
- Program menu only can appear on screen at stop mode for JPEG format when press PROG button.
- Programming (program menu) cannot be access during playback mode for JPEG format.

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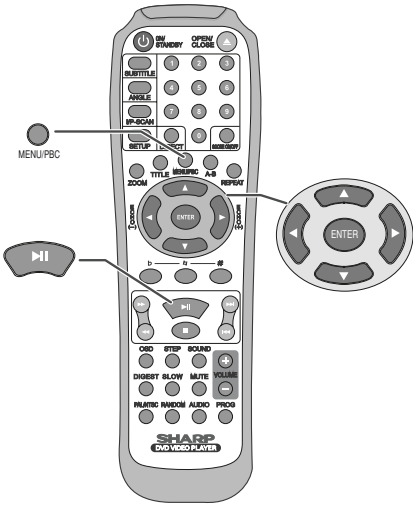
JPEG disc operation

The following playback functions are the same as DVD or VCD operations.

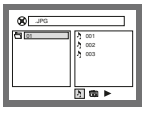
	Page
Playback	**29**
To locate the beginning of a chapter (track) (skip)	**31**
Fast forward/Fast backward (search)	**31**
To play repeatedly (repeat play)	**35**
To change the display on TV screen	**41**
To start playback from the desired point (direct play)	**42**



■ Playback on the JPEG menu screen JPEG

You can play CD-R/RW recorded in the JPEG formats.

1 Load a disc containing JPEG files, the JPEG menu screen appears.



··· Indicates folders.

··· Indicates JPEG data.

2 Press the ▲, ▼, ◄ or ► button to select a folder or a track and press the ENTER.

- Playback starts when you select a track.
- The next file picture can automatically displayed after a whilst for JPEG format if you select "PLAY" (►II) button to start playback.
- Using the direct number buttons, you can open file or folder directly.

Notes:

- Up to 11 characters can be displayed for a folder name and a track name. Underlines, asterisks, and spaces may not be displayed.
- Programming is not possible whilst playback mode for JPEG format. It's only can be done during stop mode (refer page 43 for programmed play).

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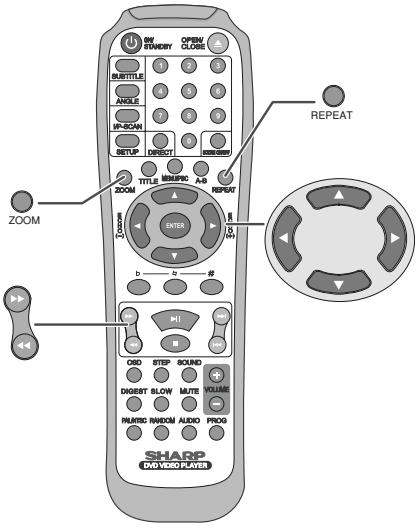
JPEG disc operation (continued)



Repeat play on the JPEG menu screen:
Whilst a disc is playing, press the REPEAT button.

Each time the button is pressed, the repeat play mode changes in the following order.

TV screen	Unit display	
REP: (REP 1)	"REP 1"	Repeat the currently playing track.
REP: [REP DIR]	"REP"	Repeat the currently playing folder (directory).
REP: [REP ALL]	"REP ALL"	Repeat all the tracks.
REP: [OFF]	"No display"	Repeat play is cancelled.

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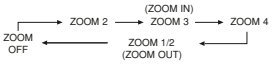
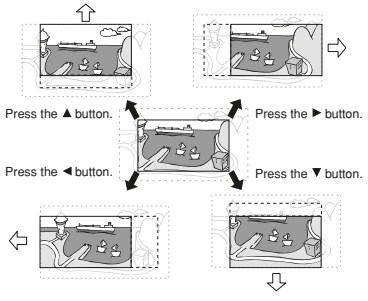
■ Zoom function JPEG

1 During playback, press the ZOOM button.

Each press of the ZOOM button cycles through the zoom setting as follows:



2 To shift the view and display the desired part of a zoomed image, press the ▲, ▼, ◄ or ► button repeatedly.



To return to normal view:
Press the ZOOM button again, "ZOOM OFF" will show on the screen.

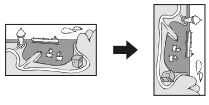
■ Rotating a picture JPEG

You can rotate images.

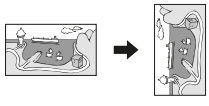
During playback, press the ▲, ▼, ◄ or ► button.

The image rotates as shown below.

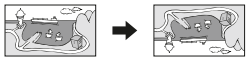
► button : 90˚ rotation in a clockwise direction.



◄ button : 90˚ rotation in an anti-clockwise direction.



▲ button : Horizontal mirror image.



▼ button : Vertical mirror image.

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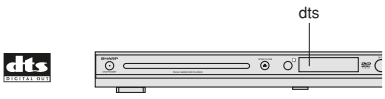
Enjoying various sounds

DTS (Digital Theater System)

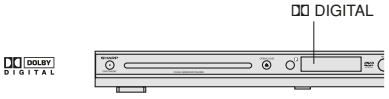


Digital input from discs with this trademark

One of the digital audio systems for theatrical use. As the sound quality is emphasised, you can enjoy the realistic sound effect in the home theatre system.

The DTS indicator will light up when the disc recorded in DTS is played back.

Dolby Digital



Digital input from discs with this trademark

One of the digital audio systems for theatrical use. You can enjoy the stereophonic effect in the home theatre system.

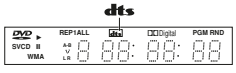
The DIGITAL indicator will light up when the disc recorded in DIGITAL is played back.

Note:
The above sound was more effect if connecting to an Amplifier/Digital Amplifier with Dolby Digital Decoder, DTS Decoder.
(See additional connection page 15.)

■ DTS or Dolby Digital Surround

Enjoy DTS or Dolby Digital sound in 5.1 or 2-channel.

Whilst a disc is playing, press the AUDIO button repeatedly to select the desired listening mode.

5.1ch surround sound:	Unit display	TV screen
Example: DTS		DTS

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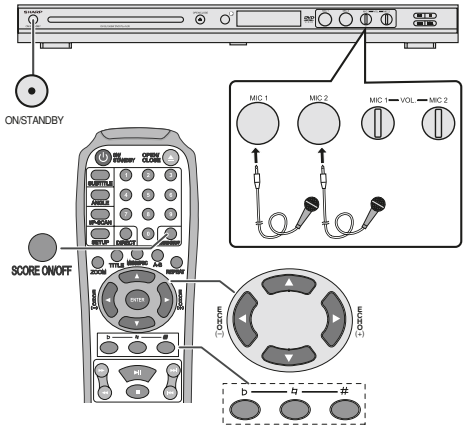
Playing karaoke



■ Playing karaoke

You can enjoy karaoke by connecting a separately available microphone to this unit.

1 Set the MIC VOLUME control to MIN to protect the speakers from shock noise and to avoid disturbing noises.

2 Connect the microphone(s) to the MIC-1 or MIC-2 socket or both sockets for enjoying duets.

- Use a microphone with a 6.3 mm (1/4") plug, an impedance of 600 ohms.
- Use a standard plug adaptor when using a microphone with a 3.5 mm (1/8") diameter plug.

3 Press the ON/STANDBY button to turn the power on.

4 Adjust the volume of the audio source using the VOL.UP or VOL.DOWN button on the remote control.

5 To control the volume of both microphones, turn the MIC VOLUME control towards MAX. (right) to increase and towards MIN. (left) to decrease.

6 Press the ECHO + button on the remote control to increase the microphone echo, and the ECHO – button to decrease it.

Notes:
- The sound is produced in 2-channel stereo whilst playing karaoke.
- Sound of the playback source can be switched (see page 37).
- When you sing too loud through the microphone, your voice may be distorted depending on the devices connected. If this happens, lower the microphone volume.
- If an extremely sensitive microphone is used, howling may be generated.
- Unidirectional microphone is more appropriate for vocal use.
- When you connect or disconnect a microphone, the sound is muted for a few seconds.

If squealing occurs:
- Reduce the microphone volume.
- Change the direction of the microphone.
- Reduce the volume of the main unit.
- Move the microphone away from the speakers.

Caution:
- When not using the microphone, remove it from the MIC socket.
- When connecting or disconnecting the microphone, set the MIC VOLUME control to MIN.

■ To obtain the desired musical pitch (key control)

Press the KEY CONTROL button to obtain the desired musical pitch (± 6 notes, 13 steps).
Press the ♭ button to lower the key.
Press the # button to raise the key.
Press ♮ button to return to the normal key.

♭ ♪ #

Pitch returns to the default setting (normal key) when...
- Switched to a disc other than the one selected at the setting.

■ Karaoke Scoring VCD

1) During playback of disc, press the SCORE ON/OFF button.
2) Score logo "🎤 SCORE" appear on TV screen.
3) Wait until playback song is finish then score result will be shown on TV screen.
4) To cancel score result, press SCORE ON/OFF button again.

Note: Karaoke scoring is disable for DVD/CD.

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Troubleshooting chart

Many potential problems can be resolved by the owner without calling a service technician.
If something is wrong with this product, check the following before calling your authorised SHARP dealer or service centre.

■ General

Symptom	Possible cause
No sound is heard.	● Is the volume level set to "0"? ● Are the speaker wires disconnected?
Noise is heard during playback.	● Move the unit away from any computers or mobile phones.
Interference or noise occurs on the TV image.	● Is the unit placed near TV with internal aerial? Use an external aerial.
The power is not turned on.	● Is the unit unplugged? ● The protection circuit may be activated. Unplug and plug in the power lead again after 15 minutes or more.
No images are displayed.	● Is TV turned on? ● Is the input of TV switched?

■ DVD player

Symptom	Possible cause
Even though a disc has been loaded, "NO DISC" is displayed. Playback sounds are skipped.	● Is the disc loaded upside down? ● Is the disc very dirty? ● Does the disc satisfy the standards? ● Is the unit located near excessive vibrations? ● Has condensation formed inside the unit?
The control buttons do not function. Music or video playback is interrupted.	● Is the disc very dirty? ● Does the disc satisfy the standards? ● Is the unit located near excessive vibrations? ● Has condensation formed inside the unit?
Pictures and sound are skipped.	● Is the disc very dirty? ● Is the unit located near excessive vibrations? ● Has condensation formed inside the unit?
The unit does not operate even if the power is on.	● Is a disc other than a DVD (region number on the back of the unit), SVCD, VCD, audio CD, CD-R or CD-RW loaded?
Image cannot be played back. (Sound is not heard.)	● Are the video and audio cables connected improperly? ● Is a disc other than a DVD (region number on the back of the unit), SVCD, VCD, audio CD, CD-R or CD-RW loaded? ● Is the disc very dirty? ● Is the disc loaded upside down? ● Clean the optical pickup if it is dirty. ● Is the TV input set to "VIDEO 1/VIDEO 2", etc.? ● Is the unit turned on?

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■ Remote control

Symptom	Possible cause
The remote control does not operate properly.	● Is the battery polarity respected? ● Are the batteries dead? ● Is the distance or angle incorrect? ● Are there any obstructions in front of the unit? ● Is the remote control sensor exposed to strong light (inverter fluorescent light, direct sunlight, etc.)? ● Is the remote control for another equipment used simultaneously?

■ If trouble occurs

When this product is subjected to strong external interference (mechanical shock, excessive static electricity, abnormal supply voltage due to lightning, etc.) or if it is operated incorrectly, it may malfunction.

If such a problem occurs, do the following:

1 Turn the unit power off and on again.
2 If the unit is not restored in the previous operation, unplug and plug in the unit, and then turn the power on.

■ Before transporting the unit

1 Press the ON/STANDBY button to turn the power on.
2 Press the ⏏ OPEN/CLOSE button to open the disc tray.
Remove the disc inserted in the unit.
3 Press the ⏏ OPEN/CLOSE button to close the disc tray.
4 Press the ON/STANDBY button to switch off, and then unplug the AC power lead from the wall socket.

■ Condensation

Sudden temperature changes, storage or operation in an extremely humid environment may cause condensation inside the cabinet (laser pickup, etc.) or on the transmitter on the remote control.
Condensation can cause the unit to malfunction. If this happens, leave the power on with no disc in the unit until normal playback is possible (about 1 hour). Wipe off any condensation on the transmitter with a soft cloth before operating the unit.

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Error indicators and warnings

When you load an unplayable disc or fail to perform operations properly, the following messages are displayed on the unit and the TV screen.

Unit display	Meaning
	● The disc is not loaded. ● The disc is scratched or dirty and cannot be recognised. ● The disc is loaded up-side down.
	● The region number of the DVD is not the number on the back of the unit.

TV screen	Meaning
	● The disc is not loaded. ● The disc is scratched or dirty and cannot be recognised. ● The disc is loaded up-side down.
	● The region number of the DVD is not the number on the back of the unit.

Maintenance

■ Cleaning the cabinet

Periodically wipe the cabinet with a soft cloth and a diluted soap solution, then with a dry cloth.

- Do not use chemicals for cleaning (petrol, paint thinner, etc.). It may damage the cabinet finish.
- Do not apply oil to the inside of the unit. It may cause malfunctions.

Specifications

As part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

● **General**

Power source	AC 110 - 240 V, 50/60 Hz
Power consumption	Power on: 12 W
Dimensions	Width: 430 mm (16-15/16") Height: 37 mm (1-1/2") Depth: 200 mm (7-7/8")
Weight	1.70 kg (3.75 lbs.)
Audio input terminals	MIC x 2 (ø6.3)
Audio output terminals	Analogue output (OUT): RCA type x 1 pair (L/R)
Video output terminals	S-video output: S-terminal x 1, component (Y, P_B, P_R) Video output: RCA type x 1
Digital output terminal	COAXIAL

● **DVD player**

Signal system	PAL/NTSC colour	
Supported disc types	DVD (with the same region number on the back of the unit), SVCD, VCD, audio CD, CD-R, CD-RW, JPEG	
Video signal	Horizontal resolution: 500 lines S/N ratio: 70 dB	
Audio signal	**Frequency characteristics**	Linear PCM DVD: 20 Hz to 20 kHz (sampling rate: 48 kHz) 20 Hz to 20 kHz (sampling rate: 96 kHz) CD: 20 Hz to 20 kHz
	S/N ratio	CD: 94 dB (1 kHz)
	Dynamic range	Linear PCM DVD: 95 dB CD: 94 dB
	Total harmonic distortion ratio	0.01 % maximum

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Copyright

Copyright information:

- Unauthorised copying, broadcast, public display, transmission, public performance and rental (regardless of whether or not such activities are for profit) of disc contents are prohibited by law.
- This system is equipped with copy protection technology that causes substantial degradation of images when the contents of a disc are copied to a video tape.

Copy Protection

This unit supports Macrovision copy protection.
On DVD discs that include a copy protection code, if the contents of the DVD disc are copied using a VCR, the copy protection code prevents the videotape copy from playing normally.

Apparatus Claims of U.S. Patent Nos. 4,631 ,603, 4,577,216, 4,819,098 and 4,907,093 licensed for limited viewing uses only.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners.

Use of this copyright protection technology must be authorised by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorised by Macrovision Corporation.

Reverse engineering or disassembly is prohibited.

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